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TITLE : FLAME RETARDANT RESIN COMPOSITION

ABSTRACT : PURPOSE: To obtain a flame resistant resin composition, excellent in molding processability and flame retardance and having a white hue without deteriorating mechanical performances by adding ammonium polyphosphate, compound containing polyhydric hydroxyl groups, a compound containing the triazine ring and a metallic hydroxide together as flame retardants.

CONSTITUTION: This composition is obtained by blending (A) 100 pts.wt. resin with (B) 10-25 pts.wt. ammonium polyphosphate (preferably having $\leq 40\mu\text{m}$ average particle diameter and $\geq 1\text{g}$ dissolved amount after 30min when dispersed in 90ml water at 25°C), (C) 1-15 pts.wt. compound containing polyhydric hydroxyl groups (preferably dipentaerythritol, etc.), (D) 1-10 pts.wt. compound containing the triazine ring (e.g. melamine) and (E) 0.1-5 pts.wt. metallic hydroxide (preferably magnesium hydroxide, etc.). Furthermore, the average particle diameter of the components (C) to (E) is preferably respectively $\leq 40\mu\text{m}$ and the average particle diameter of the components (C) and (D) is preferably smaller than that of the component (B).

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